

Louisiana Department of Environmental Quality (LDEQ)  
Office of Environmental Assessment  
Water Planning and Assessment Division

Corrections to Louisiana's 2022 Water Quality Integrated Report  
Following U.S. Environmental Protection Agency Approval

June 27, 2022

Following submittal of Louisiana's 2022 Water Quality Integrated Report (IR) to the U.S. Environmental Protection Agency (EPA) on April 1, 2022, the Louisiana Department of Environmental Quality (LDEQ) continued its review of assessment results and ATTAINS (Assessment, Total Maximum Daily Load (TMDL) Tracking and Implementation System) entries in order to ensure the accuracy of the 2022 IR. During the course of this review 11 water body impairment combination (WIC) errors were identified. On May 3, 2022 EPA fully approved Louisiana's 2022 IR; however, prior to final public release of the 2022 IR LDEQ has elected to make the necessary corrections to the WIC errors identified. Because some of these corrections involve Clean Water Act Section 303(d) listed waters, and in the interest of full transparency of the final 2022 IR, LDEQ is public noticing the corrections. All proposed corrections have been submitted to EPA for review and approval.

Table 1 summarizes the 2022 IR WIC corrections. Additional details on each WIC correction are provided after the table. All data used for the original assessment as well as data used for the corrections are available upon request.

**Table 1. Water body impairment combinations in the 2022 Water Quality Integrated Report to be corrected prior to final release of the report.**

<b>Subsegment Number</b>	<b>Subsegment Description</b>	<b>Original 2022 IR Assessment</b>	<b>Corrected 2022 IR Assessment</b>	<b>Designated Use Support Correction</b>	<b>Reason for Correction</b>
LA030201_00	Calcasieu River-From Marsh Bayou to saltwater barrier (Scenic)	Not supporting enterococci criterion for Primary Contact Recreation (PCR) use; Integrated Report Category (IRC) 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Not supporting for fecal coliform; IRC 5	PCR use remains not supporting due to fecal coliform; IRC 5	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.
LA042207_00	Lake Fortuna	Not supporting enterococci criterion for PCR use; IRC 5	Fully supporting enterococci criterion for PCR use; IRC 1	PCR use changes to fully supporting; IRC 1	Error in enterococci criterion assessment
LA060204_00	Bayou Courtableau-From headwaters to West Atchafalaya Borrow Pit Canal	Not supporting enterococci criterion for PCR use; IRC 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Not supporting for fecal coliform; IRC 4a	PCR use remains not supporting due to fecal coliform; IRC 4a	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.

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LA060207_00	Bayou des Glaises Diversion Channel/West Atchafalaya Borrow Pit Canal- From Bayou des Glaises to Bayou Courtableau	Not supporting enterococci criterion for Primary Contact Recreation (PCR) use; IRC 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Not supporting for fecal coliform; IRC 5	PCR use remains not supporting due to fecal coliform; IRC 5	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.
LA060208_00	Bayou Boeuf- From headwaters to Bayou Courtableau	Not supporting enterococci criterion for PCR use; IRC 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Not supporting for fecal coliform; IRC 4a	PCR use remains not supporting due to fecal coliform; IRC 4a	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.

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LA060210_00	Bayou Carron- From headwaters to Little Bayou Teche	Not supporting enterococci criterion for PCR use; IRC 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Not supporting for fecal coliform; IRC 5	PCR use remains not supporting due to fecal coliform; IRC 5	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.
LA060802_00	Vermilion River- From La. Highway 3073 bridge to ICWW	Not supporting enterococci criterion for PCR use; IRC 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Not supporting for fecal coliform; IRC 4a	PCR use remains not supporting due to fecal coliform; IRC 4a	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.

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LA080903_00	Big Creek-From headwaters to Boeuf River; includes Big Colewa Bayou	Fully supporting Dissolved Oxygen (DO) criterion for Fish and Wildlife Propagation (FWP) use; IRC 1	Not supporting DO criterion for FWP use; IRC 4a	FWP use support remains impaired for DO and other causes of impairment; IRC for use not specified due to multiple impairments	Error in DO assessment
LA081609_00	Hemphill Creek-From headwaters to Catahoula Lake; includes Hair Creek	Fully supporting fecal coliform criterion for PCR use; IRC 1	Not supporting fecal coliform criterion for PCR use; IRC 5	PCR use changes to not supporting; IRC 5	Error in fecal coliform assessment
LA120406_00	Lake de Cade	Not supporting enterococci criterion for PCR use; IRC 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Change to full support of fecal coliform assessment; IRC 1	PCR use changes to fully supporting; IRC 1	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.

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LA120509_00	Houma Navigation Canal-From Houma to Bayou Pelton	Not supporting enterococci criterion for PCR use; IRC 5	Removal of not supporting assessment for <i>Enterococcus</i> for PCR use; enterococci criterion does not apply. Change to full support of fecal coliform; IRC 1	PCR use changes to fully supporting; IRC 1	Misapplication of enterococci criterion on a subsegment without the criterion (LAC 33:IX.1123.Table 3 and endnote 25). Reverted to fecal coliform criterion and assessment due to misapplication of enterococci criterion.

## **Details of Waterbody Impairment Combinations Corrections Identified in Table 1**

### **Subsegment LA030201\_00 - Calcasieu River-From Marsh Bayou to saltwater barrier (Scenic), Ambient Water Quality Monitoring Network (AWQMN) site 0093:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR remains not supported (IRC 5) due to application of the correct fecal coliform criterion and assessment of not supporting based on routine AWQMN data (IRC 5).

### **Subsegment LA042207\_00 - Lake Fortuna, AWQMN site 1083:**

The original 2022 IR assessment reported not supporting for criteria for enterococci for PCR (IRC 5). Further review of the 2022 IR assessments found an error in the *Enterococcus* assessment calculation due to failure to include three months of data in a geometric mean calculation for the PCR season. As a result, *Enterococcus* was found to be fully supported and the designated use of PCR changes to fully supported (IRC 1).

### **Subsegment LA060204\_00 - Bayou Courtableau-From headwaters to West Atchafalaya Borrow Pit Canal, AWQMN site 0665:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR remains not supported (changes to IRC 4a) due to application of the correct fecal coliform criterion and assessment of not supporting based on routine AWQMN data (IRC 4a).

### **Subsegment LA060207\_00 - Bayou des Glaisses Diversion Channel/West Atchafalaya Borrow Pit Canal-From Bayou des Glaisses to Bayou Courtableau, AWQMN site 0667:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR remains not supported (IRC 5) due to application of the correct fecal coliform criterion and assessment of not supporting based on routine AWQMN data (IRC 5).

**Subsegment LA060208\_00 - Bayou Boeuf-From headwaters to Bayou Courtableau,  
AWQMN site 0668:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR remains not supported (changes to IRC 4a) due to application of the correct fecal coliform criterion and assessment of not supporting based on routine AWQMN data (IRC 4a).

**Subsegment LA060210\_00 - Bayou Carron-From headwaters to Little Bayou Teche,  
AWQMN site 0670:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR remains not supported (IRC 5) due to application of the correct fecal coliform criterion and assessment of not supporting based on routine AWQMN data (IRC 5).

**Subsegment LA060802\_00 - Vermilion River-From La. Highway 3073 bridge to ICWW,  
AWQMN sites 0001 and 0677:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR remains not supported (changes to IRC 4a) due to application of the correct fecal coliform criterion and assessment of not supporting based on routine AWQMN data (IRC 4a).

**Subsegment LA080903\_00 - Big Creek-From headwaters to Boeuf River; includes Big  
Colewa Bayou, AWQMN site 0069:**

The original 2022 IR assessment reported that the dissolved oxygen (DO) criterion of 5.0 mg/L for the designated FWP use was fully supported (IRC 1). This assessment was based on an override of AWQMN data, which showed impairment, by the use of Nonpoint Source (NPS) program data. The NPS data assessment initially showed full support of the criterion using a preponderance of data approach. Subsequent review of the NPS assessment found that several DO criterion failures were not recognized by the statistical program used to conduct the assessment. After accounting for the unrecognized DO criterion failures, it was determined that



DO is a suspected cause of impairment to the subsegment (IRC 4a). The suspected cause of low DO for the use of FWP will be added to ATTAINS and subsequent publicly available sources of information for the 2022 IR. Non-support of the designated use of FWP remains unchanged due to the lack of support of other parameters (IRC not specified).

**Subsegment LA081609\_00 - Hemphill Creek-From headwaters to Catahoula Lake; includes Hair Creek, AWQMN site 0816:**

The original 2022 IR assessment reported that the fecal coliform criterion for the designated use of PCR was fully supported (IRC 1). This assessment was based on an override of AWQMN data, which showed full support by the use of NPS program data. The NPS data assessment initially showed full support of the criterion using a preponderance of data approach. Subsequent review of the NPS assessment found that several fecal coliform criterion failures were not recognized by the statistical program used to conduct the assessment. After accounting for the unrecognized fecal coliform criterion failures, it was determined that fecal coliform is a suspected cause of impairment to the subsegment (IRC 5). The suspected cause of fecal coliform for the designated use of PCR will be added to ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR will also be changed to not supported (changes to IRC 5).

**Subsegment LA120406\_00 - Lake de Cade, AWQMN site 0937:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR reverts to the 2018 IR assessment (changes to IRC 1) of full support for fecal coliform (IRC 1) due to insufficient fecal coliform data for 2022 IR and due to misapplication of enterococci criterion in 2020 IR.

**Subsegment LA120509\_00 - Houma Navigation Canal-From Houma to Bayou Pelton, AWQMN site 0942:**

The original 2022 IR assessment reported a suspected cause of impairment due to *Enterococcus* (IRC 5) for the designated use of PCR. Further review of the 2022 IR assessments found the subsegment does not have criteria for enterococci (LAC 33:IX.1123. Table 3); therefore, the suspected cause was reported in error. The suspected cause of *Enterococcus* will be removed from ATTAINS and subsequent publicly available sources of information for the 2022 IR. The designated use support for PCR reverts to the 2020 IR assessment (changes to IRC 1) of full support for fecal coliform (IRC 1) due to insufficient fecal coliform data for 2022 IR.